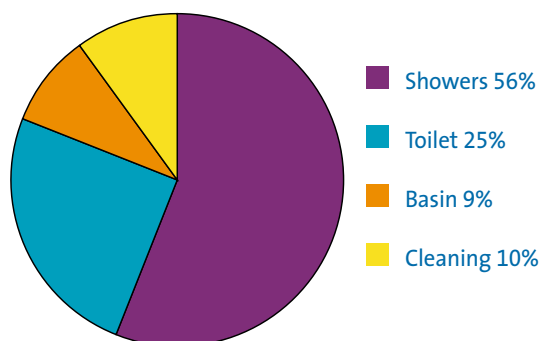


Save water, money & the environment

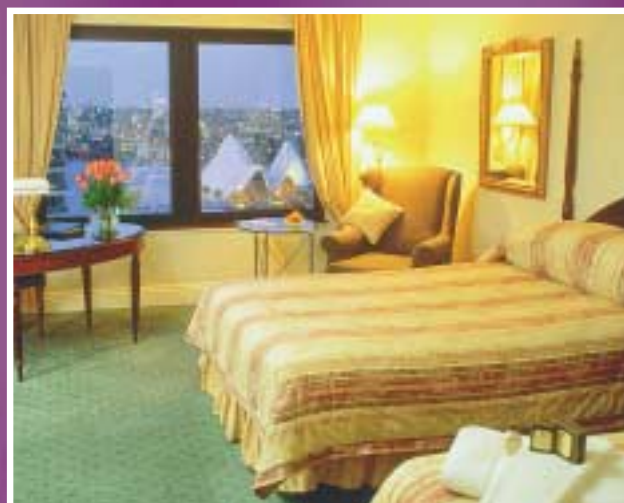
Sydney Water's **Every Drop Counts** program is designed to help you save water, money and the environment. By saving water you'll be managing the resources in your business more effectively, saving money and making a positive contribution to the environment.

In most hotels, the majority of water used is in guest rooms. Guest rooms, therefore, represent the biggest opportunity for water savings and modern fixtures enable water efficiency without compromising guest comfort.

Typical water distribution in a water efficient guest room



Note : shower usage includes bath usage



BEST PRACTICE GUIDELINES - Typical savings available per room

	Best practice	Existing Usage	Saving per room		Supply & Installation cost	Description	Payback period
			kL/year	\$/year			
Showers	9L/min (AAA-rated)	15L/min	28	\$100	\$50-120	new showerhead, plus option of flow control	0.5- 1.2 years
Toilet	6/3 dual flush	11L	17	\$30	\$400	new pan and cistern	>5 years
Basin	6L/min	12L/min	5.3	\$15	\$20-40	flow control in spout or in taps	1.3 - 2.6 years
Cleaning			3.7	\$10	\$0	typical saving	0 years
Refer overleaf for calculations		TOTAL	54	\$155	\$470-560		2.9 - 3.5 years

Note: Depending on the hotel plumbing configuration flow control regulators may be required instead of, or in conjunction with, water efficient showers. Flow regulators fitted to both hot and cold taps can be used to eliminate any temperature fluctuations, particularly in multi-storey recirculated hot water systems.

Being smart with water makes good business sense



Encourage your guests to get involved

Inform guests about your environmental and water conservation policy, so they can take an active role in assisting your program. Investigate the possibility of guests reusing towels to reduce the energy and water consumed during laundry operations.

Room cleaning

- Cleaning consumes 10% of the water used in guest rooms
- Review cleaning practices to ensure that the number of toilet flushes and how long water is used in the shower and basin is minimised during cleaning.

How to measure your current use per fixture

You can measure the flow rate in your hotel room by using a flow-cup, or a stop-watch and a measuring cylinder. *Use the table overleaf to see how much you could save in each usage area.*

To measure the current flow:

- **Showers** - set the flow using hot and cold to usage level and measure flow rate
- **Toilet** - use a measuring cylinder to fill and measure the cistern volume
- **Basin** - use a hose between the tap and a measuring cylinder, or fill the basin and record volume.



Types of toilet systems


Various flush types are in common use such as single and dual flush cisterns, flusherette systems and direct flush valves. Of these the 6/3 litre dual flush cistern is the most efficient, and rated as 3.6 litres. Plumbing policies Australia-wide now either require, or recommend their use in any new installation.

Existing single flush systems

- Reducing flush volumes of existing cisterns is a cost effective modification
- Modifying the float arm, or installing a displacement device reduces cistern volume from 11 litres to 9 litres per flush.

Flusherette systems

- Flusherette systems can use excessive quantities of water, if unchecked. Over time, the adjustments for flow rate and flush duration can wear, leading to flush volumes of 13 litres, or more
- Flow control regulators inserted into the valve bodies can reduce volumes by up to 30% and overcome adjustment difficulties due to aged equipment.



THE AAA RATING SCHEME EXPLAINED

The AAA water efficient rating scheme is used to identify appliances that are water efficient. The more 'A's an appliance has, the greater the water efficiency. The scheme applies to showerheads, dishwashers, washing machines, taps and other items. Look for the AAA label on water efficient appliances.

Basis of Calculations

Using 75% occupancy, 1.5 guests/room & 95% SUDF. Average shower time is 8 minutes.
Installation cost based on multiple units. Labour cost approximately \$60/hr.
The cost of installed regulators is approximately \$40 for both taps.
The cost of water includes water, sewerage and energy.
Hot water cost assumes 30% hot basin usage, 45% hot shower usage, gas heating.
Based on 40°C shower and 60°C hot water.
The lower the hot water temperature the more hot water required.

